

Utah Weekly Pertussis Update

2019 data, through MMWR week ending May 4 (MMWR week 18)

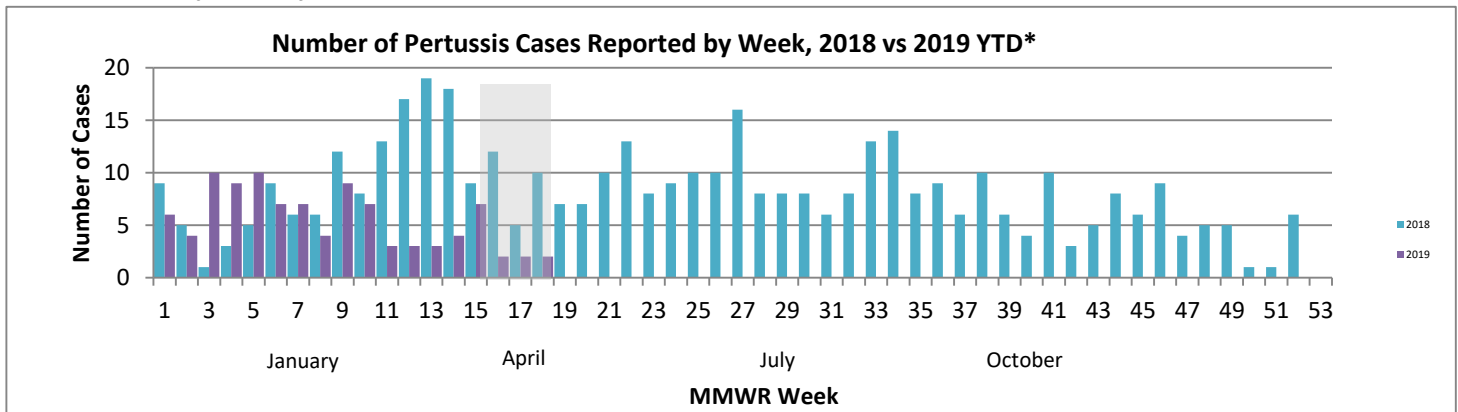
Data presented in this report are based on current data available and will be subject to change weekly.

Data Summary

Total number of cases reported, 2019 year-to-date (YTD)	99	Utah Incidence rate, 2019 year-to-date (YTD) per 100,000 person-years	9.2
Total number of cases reported 2018	428	Utah Incidence rate, 2018 per 100,000 person-years	14.6
Number of cases reported in past week	2	National Incidence rate*, 2017 per 100,000 person-years.	5.8
Total number of cases reported, through same time period 2018	167	2019 Hospitalizations	2
Age groups with the highest rates	<1 1-4	2019 Cases in infants <1 year	4

*National Incidence Rate is updated as released by the Centers for Disease Control and Prevention.

Number of cases reported by week



*Additional cases may have occurred, especially in the most recent 3 weeks that have not yet been reported, as indicated by the grayed out section of the graph above.

2019 Year-to-Date Incidence Rates, By Age

Age (years)	2019 Cases	2017 population	Rate*
<1	4	51,401	22.5
1-4	17	203,799	24.2
5-14	25	521,331	13.9
15-24	18	495,829	10.5
25-34	9	457,423	5.7
35-44	9	422,547	6.2
45-54	8	317,532	7.3
55-64	6	296,399	5.9
65+	3	335,572	2.6
Unknown	0	-	-
Total	99	3,101,833	9.2

* Rate is calculated per 100,000 person years.

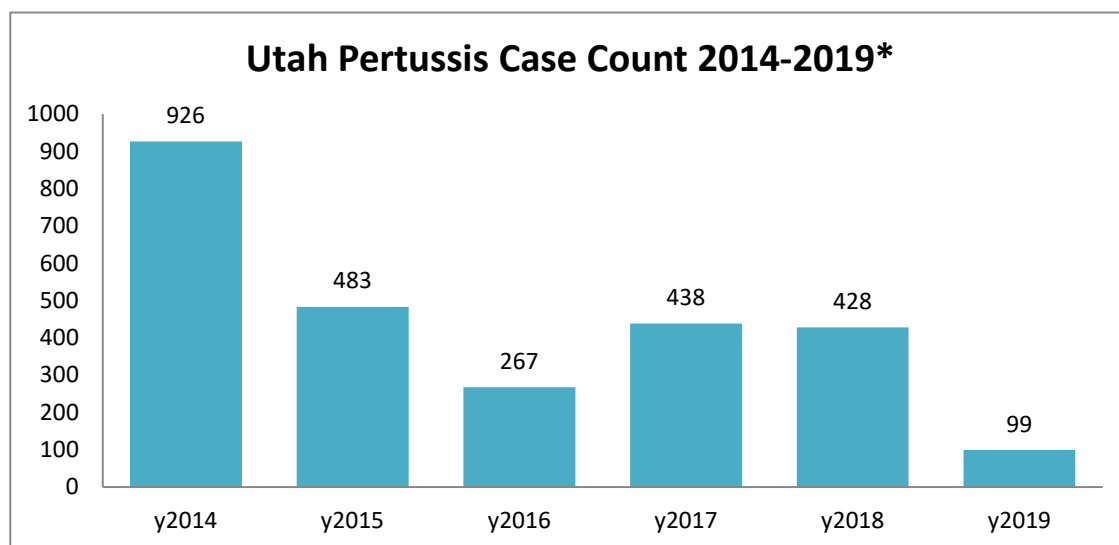
Infants less than 1 year of age have historically had the highest incidence rates of pertussis due to their susceptibility.

School Age Incidence Rates, 2019 Year-to-Date

Grade	Age (years)	2019 Cases	2017 Population	Rate*
Preschool	3-4	5	102,181	14.2
Kindergarten	5	0	49,869	0.0
1	6	5	51,269	28.3
2	7	0	52,299	0.0
3	8	1	52,131	5.6
4	9	4	53,612	21.6
5	10	2	53,712	10.8
6	11	2	52,765	11.0
7	12	6	52,359	33.2
8	13	2	51,910	11.2
9	14	3	51,405	16.9
10	15	2	49,974	11.6
11	16	1	49,983	5.8
12	17	4	50,211	23.1

* Rate is calculated per 100,000 person-years. School age incidence rates were calculated using the average age of a student in each grade. High incidence rates in 5th and 6th grade may be due to waning immunity.

Utah Case Counts of Pertussis, 2014-2019* Year to Date



Pertussis tends to be cyclical. Reports have increased in Utah since 2010, peaked in 2012, and are currently trending downward. 2019 data, through MMWR week ending January 5 (MMWR week 1)

Incidence of Pertussis by Local Health Department, 2019 YTD

Local Health Department	2019 Cases	Rate*
Bear River	3	4.8
Central Utah	0	0.0
Davis County	1	0.8
Salt Lake County	46	11.7
San Juan County	0	0.0
Southeast Utah	0	0.0
Southwest Utah	15	18.4
Summit County	0	0.0
Tooele County	3	12.9
TriCounty	0	0.0
Utah County	15	7.2
Wasatch County	1	9.0
Weber-Morgan	15	16.5

* 2019 data includes pertussis cases reported year to date. 2014-2018 data reflects cases reported during the entire calendar year for each year.

